

CHHIARKAWP
BU THUMNA

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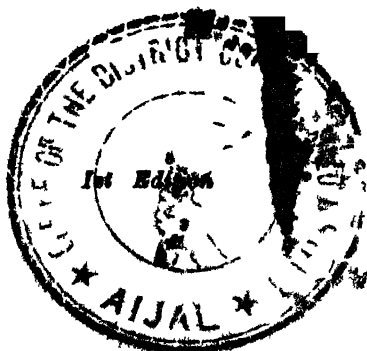
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Price

CHHIARKAWP BU THUMNA

Teachers Copy

By
Thanthama, B.A., ~~Mr.~~
Council Education Officer



Printed & Published by
The NIKI Printing Press, Kulkawn Aijal Mizo District.
1963

CHHIARKAWP BU THUMNA

By
Thanthuama B A B T
Council Education Officer

1st Edition

N - n T to Arches
P - 747
L 3/4/96
Sup - -
Price - -

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The ZIKI Printing Press Kulikawn A jal M i o District
1963

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1963

THUHMAHRAI

Tân hma lam zawng kha chuan Primary zirlai
atân Chhiarkawp Bu pathum (Bu khatna Bu hnh
na B thuinna) lauh kan nei a Amherawl
chu Kumina Text Book Committee chuan tha
tawk lovin a hria a Iawl hrang hrang tân bu
hrang theuh zel (inlonin tawm tawh lova)
buatsaib tura min tih a cin ka hen jam tan
a Zirlartu lei naupan t tân pawh a r m hân
hle taw! ka beisei

Tâna mi hi a tan tihna a nih avângin a tha
tawk lovin a famkim tawk lo pawh a nina th
a chuingin tupawhin a that zawkra dân tûr
rawtra t min han neihpa theih chuan mi han
hriattir thei ula ka lăwm ngawt ang

He Chhiarkawp Bu Thuinna hi Zo ram zirlain
hmasiwn zel nana a tan kaipui ka beisei

Dated Ajal
The 7th October 1963

Thanthuama
Education Officer
Mizo District Council

SYLLABUS

An zir tawhte en nawn leh ni sela
chantir Unitary method (Rulos of
threa) year month week Day Hour
Second dân hi hmangin problem
awl deub tihtir tûr a ni Fraction
awmzia briat chantir tûr a ni Bill
siam dân nên Roman Number
1—100 thlang zirtir tel tûr a ni
Tehna leh bûkna (metric system)
thil zau zâwng tehna (measurement
of area) mawl tê tê zirtir bawk tûr
a ni

ROMAN NUMBER

Number ziaik dân chi hnh a awm a chng chu ARABIC NUMBER leh ROMAN NUMBER a ni

Arabic Number Hei hi chu kan hman lâr zâwk 1 2 3 hi a ni Hetah hi chuan k n hriat tawh angin chhinchhiabna sâwm a awm a

Roman Number Roman Number ah hi chuan chhinchhiabna 7 chaub a awm a chng chu I V X L C D M a ni

Heng nun ber chi hnhte awnzia leh a intl k dân chu hetiang hi a ni —

1=I	11=XI	30=XXX	400=CD
2=II	12=XII	40=XL	500=D
3=III	13=XIII	50=L	600=I'C
4=IV	14=XIV	60=LX	700=DCC
5=V	15=XV	70=LXX	800=DCCC
6=VI	16=XVI	80=LXXX	900=CM
7=VII	17=XVII	90=XC	1000=M
8=VIII	18=XVIII	100=C	1400=MCD
9=IX	19=XIX	200=CC	1900=MCM
10=X	20=XX	300=CC	2000=MM

THUTUR I

A

Hên hi an tluksu number (Arabic Number)
ziak chhuak rawh

Rilru chhuarkaw na tih zet tur)

1	III	6	VIII	11	XXXII	16	CXXXIV
2	VI		XIX	12	LXXX	17	LXXII
3	IX	8	L	13	CIX	18	XLIX
4	XII	9	XL	14	CCI	19	LXXV
5	IV	10	III	15	VIII	20	LXIX

AW

Heng hi a tluksu Roman number ziak chhuak
rawh —

1	21	6	34	11	110	16	165
2	14	7	27	12	125	17	305
3	32	8	54	13	231	18	189
4	18	9	62	14	194	19	99
5	43	10	76	15	147	20	153

CHHIARKAW BU THUMNA

TIHTUR II

BEIH

Be h rawl —

1	6.4	2	776	3	1	4
	215		676		6 6	118
	678		716		6 4	8 8

5	8767	6	68		83 7	8 3
	54 7		8 63			8
	57 8		86 8		573	66 7
	6 47		6 45		8 87	8 8

9	48	10	9 9	11	9009	1	0
	11 0		8		1899		6 8
	9		9897		1		8 7
	1858		988		1869		1
	97 9		107 8		6 5		8 90

13 734 886 661 + 6

14 88 5 + 67 + 34 + 12316 + 1

15 81 + 936 + 725 + 1711 + 56 100x

16 4 + 600 + 8 4 + 8004 + 700 + 4

17 1 5 + 451 * 181 8 60 - 60 20

18 223 + 164 + 15 1 + 56 - 84

19 8 1 + 3 1 + 2817 + 28 9 1

20 15009 + 9 * 211 + 12 + 8742

TIHTUR III

PAIH

Path rawh —

1	647	2	896	3	974	4	804
	*42		350		324		303
5	7458	6	6475	7	6742	8	4697
	3249		3246		4313		2349
9	8944	10	8844	11	5376	12	9 46
	3567		3165		2077		3548
13	6543	14	5432	15	8674	16	8949
	1448		3036		3678		3557
17	6656	18	4768	19	6405	20	8074
	3543		3874		3565		2507
21	6602	22	8045	23	7050	24	8940
	3566		3706		3504		3570
25	84766—36794			32	6644—574		
26	38976—9636			33	9070—467		
	89747—33548			34	45064—34554		
28	6704—3507			35	80000—367		
29	94000—7306			36	45064—7976		
30	74609—3574			37	3394—2453		
31	35480—4479			38	6000—5374		

MULTIPLICATION TABLE

	3	4	5	6	7	8	9
1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
2-4	2-6	2-8	2-10	2-12	2-14	2-16	2-18
3-6	3-9	3-12	3-15	3-18	3-21	3-24	3-27
4-8	4-12	4-16	4-20	4-24	4-28	4-32	4-36
5-10	5-15	5-20	5-25	5-30	5-35	5-40	5-45
6-12	6-18	6-24	6-30	6-36	6-42	6-48	6-54
7-14	7-21	7-28	7-35	7-42	7-49	7-56	7-63
8-16	8-24	8-32	8-40	8-48	8-56	8-64	8-72
9-18	9-27	9-36	9-45	9-54	9-63	9-72	9-81
10-20	10-30	10-40	10-50	10-60	10-70	10-80	10-90
11-22	11-33	11-44	11-55	11-66	11-77	11-88	11-99
12-24	12-36	12-48	12-60	12-72	12-84	12-96	12-108
13-26	13-39	13-52	13-65	13-78	13-91	13-104	13-117
14-28	14-42	14-56	14-70	14-84	14-98	14-112	14-126
15-30	15-45	15-60	15-75	15-90	15-105	15-120	15-135
16-32	16-48	16-64	16-80	16-96	16-112	16-128	16-144

	10	11	12	13	14	15	16
1-10	1-11	1-12	1-13	1-14	1-15	1-16	
2-20	2-22	2-24	2-26	2-28	2-30	2-32	
3-30	3-33	3-36	3-39	3-42	3-45	3-48	
4-40	4-44	4-48	4-52	4-56	4-60	4-64	
5-50	5-55	5-60	5-65	5-70	5-75	5-80	
6-60	6-66	6-72	6-78	6-84	6-90	6-96	
7-70	7-77	7-84	7-91	7-98	7-105	7-112	
8-80	8-88	8-96	8-104	8-112	8-120	8-128	
9-90	9-99	9-108	9-117	9-126	9-135	9-144	
10-100	10-110	10-120	10-130	10-140	10-150	10-160	
11-110	11-121	11-132	11-143	11-154	11-165	11-176	
12-120	12-132	12-144	12-156	12-168	12-180	12-192	
13-130	13-143	13-156	13-169	13-182	13-195	13-208	
14-140	14-154	14-168	14-182	14-196	14-210	14-224	
15-150	15-165	15-180	15-195	15-210	15-225	15-240	
16-160	16-176	16-192	16-208	16-224	16-240	16-256	

$1 \times 1 = 1$	$2 \times 1 = 2$	$3 \times 1 = 3$	$4 \times 1 = 4$
$1 \times 2 = 2$	$2 \times 2 = 4$	$3 \times 2 = 6$	$4 \times 2 = 8$
$1 \times 3 = 3$	$2 \times 3 = 6$	$3 \times 3 = 9$	$4 \times 3 = 12$
$1 \times 4 = 4$	$2 \times 4 = 8$	$3 \times 4 = 12$	$4 \times 4 = 16$
$1 \times 5 = 5$	$2 \times 5 = 10$	$3 \times 5 = 15$	$4 \times 5 = 20$
$1 \times 6 = 6$	$2 \times 6 = 12$	$3 \times 6 = 18$	$4 \times 6 = 24$
$1 \times 7 = 7$	$2 \times 7 = 14$	$3 \times 7 = 21$	$4 \times 7 = 28$
$1 \times 8 = 8$	$2 \times 8 = 16$	$3 \times 8 = 24$	$4 \times 8 = 32$
$1 \times 9 = 9$	$2 \times 9 = 18$	$3 \times 9 = 27$	$4 \times 9 = 36$
$1 \times 10 = 10$	$2 \times 10 = 20$	$3 \times 10 = 30$	$4 \times 10 = 40$
$1 \times 11 = 11$	$2 \times 11 = 22$	$3 \times 11 = 33$	$4 \times 11 = 44$
$1 \times 12 = 12$	$2 \times 12 = 24$	$3 \times 12 = 36$	$4 \times 12 = 48$

$5 \times 1 = 5$	$6 \times 1 = 6$	$7 \times 1 = 7$	$8 \times 1 = 8$
$5 \times 2 = 10$	$6 \times 2 = 12$	$7 \times 2 = 14$	$8 \times 2 = 16$
$5 \times 3 = 15$	$6 \times 3 = 18$	$7 \times 3 = 21$	$8 \times 3 = 24$
$5 \times 4 = 20$	$6 \times 4 = 24$	$7 \times 4 = 28$	$8 \times 4 = 32$
$5 \times 5 = 25$	$6 \times 5 = 30$	$7 \times 5 = 35$	$8 \times 5 = 40$
$5 \times 6 = 30$	$6 \times 6 = 36$	$7 \times 6 = 42$	$8 \times 6 = 48$
$5 \times 7 = 35$	$6 \times 7 = 42$	$7 \times 7 = 49$	$8 \times 7 = 56$
$5 \times 8 = 40$	$6 \times 8 = 48$	$7 \times 8 = 56$	$8 \times 8 = 64$
$5 \times 9 = 45$	$6 \times 9 = 54$	$7 \times 9 = 63$	$8 \times 9 = 72$
$5 \times 10 = 50$	$6 \times 10 = 60$	$7 \times 10 = 70$	$8 \times 10 = 80$
$5 \times 11 = 55$	$6 \times 11 = 66$	$7 \times 11 = 77$	$8 \times 11 = 88$
$5 \times 12 = 60$	$6 \times 12 = 72$	$7 \times 12 = 84$	$8 \times 12 = 96$

$9 \times 1 = 9$	$10 \times 1 = 10$	$11 \times 1 = 11$	$12 \times 1 = 12$
$9 \times 2 = 18$	$10 \times 2 = 20$	$11 \times 2 = 22$	$12 \times 2 = 24$
$9 \times 3 = 27$	$10 \times 3 = 30$	$11 \times 3 = 33$	$12 \times 3 = 36$
$9 \times 4 = 36$	$10 \times 4 = 40$	$11 \times 4 = 44$	$12 \times 4 = 48$
$9 \times 5 = 45$	$10 \times 5 = 50$	$11 \times 5 = 55$	$12 \times 5 = 60$
$9 \times 6 = 54$	$10 \times 6 = 60$	$11 \times 6 = 66$	$12 \times 6 = 72$
$9 \times 7 = 63$	$10 \times 7 = 70$	$11 \times 7 = 77$	$12 \times 7 = 84$
$9 \times 8 = 72$	$10 \times 8 = 80$	$11 \times 8 = 88$	$12 \times 8 = 96$
$9 \times 9 = 81$	$10 \times 9 = 90$	$11 \times 9 = 99$	$12 \times 9 = 108$
$9 \times 10 = 90$	$10 \times 10 = 100$	$11 \times 10 = 110$	$12 \times 10 = 120$
$9 \times 11 = 99$	$10 \times 11 = 110$	$11 \times 11 = 121$	$12 \times 11 = 132$
$9 \times 12 = 108$	$10 \times 12 = 120$	$11 \times 12 = 132$	$12 \times 12 = 144$

$13 \times 1 = 13$	$14 \times 1 = 14$	$15 \times 1 = 15$	$16 \times 1 = 16$
$13 \times 2 = 26$	$14 \times 2 = 28$	$15 \times 2 = 30$	$16 \times 2 = 32$
$13 \times 3 = 39$	$14 \times 3 = 42$	$15 \times 3 = 45$	$16 \times 3 = 48$
$13 \times 4 = 52$	$14 \times 4 = 56$	$15 \times 4 = 60$	$16 \times 4 = 64$
$13 \times 5 = 65$	$14 \times 5 = 70$	$15 \times 5 = 75$	$16 \times 5 = 80$
$13 \times 6 = 78$	$14 \times 6 = 84$	$15 \times 6 = 90$	$16 \times 6 = 96$
$13 \times 7 = 91$	$14 \times 7 = 98$	$15 \times 7 = 105$	$16 \times 7 = 112$
$13 \times 8 = 104$	$14 \times 8 = 112$	$15 \times 8 = 120$	$16 \times 8 = 128$
$13 \times 9 = 117$	$14 \times 9 = 126$	$15 \times 9 = 135$	$16 \times 9 = 144$
$13 \times 10 = 130$	$14 \times 10 = 140$	$15 \times 10 = 150$	$16 \times 10 = 160$
$13 \times 11 = 143$	$14 \times 11 = 154$	$15 \times 11 = 165$	$16 \times 11 = 176$
$13 \times 12 = 156$	$14 \times 12 = 168$	$15 \times 12 = 180$	$16 \times 12 = 192$

1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84
8	16	24	32	40	48	56	64	72	80	88	96
9	18	27	36	45	54	63	72	81	90	99	108
10	20	30	40	50	60	70	80	90	100	110	120
11	22	33	44	55	66	77	88	99	110	121	132
12	24	36	48	60	72	84	96	108	120	132	144

TINTUR IV

PUNTIR

Puntir rawh --

1	415×5	2	372×8	3	364×4
4	861×9	5	324×4	6	816×6
7	346×28	8	450×92	9 ^h	244×124
10	812×156	11	3245×46	12	2861×37
13	3942×38	14	5687×93	15	5279×98
16 ⁺	1934×215	17	5468×412	18	2473×316
19 ⁺	1987×837	20	4284×519	21 ⁺	922×507
22	642×367	23	1266×219	24 ⁺	709×876

Tehna hláwm khat chu figure engzát pawh ni
 he number pum (pakhat) anga ngaih a ni He
 hangin= 5 27 35 number pum hláwm khat
 (whole number) anga ngaih an ni Tin number
 pahnih puntira chutiang number lo ni thei anga
 chu Factor' an ti Hetiangin= 5 leh 3 chu 15
 factor a ni Number hian deuhthe chu puntir a lo
 barsat thin avângin he ni factor dân hmang
 hian kan puntir bawh thin a ni

Entirna — 49×36

$$\begin{array}{r}
 (1) \quad 49 \times \quad 4 \times 9 = (2) \quad 49 \times \quad 6 \times 6 \\
 \begin{array}{r}
 9 \\
 \hline
 441 \\
 4 \\
 \hline
 1764
 \end{array}
 \qquad
 \begin{array}{r}
 6 \\
 \hline
 294 \\
 6 \\
 \hline
 1764
 \end{array}
 \end{array}$$

$$= 49 \times 36 = 49 \times 4 \times 9 = 49 \times 6 \times 6 = 1764$$

Entirna ang hian 49 hi 36 in kan puntir a
 36 factor chu 4×9 emaw 6×6 emaw a ni (1) 49
 hi 9 a puntir chhuak chu 441 a ni a chu chu 4 a
 puntir lehin 1764 a lo ni chu chu $49 \times 36 = 1764$
 thna a ni Chutiang bawkin entirna (2) na ang
 hian 6-in puntir a a chhuak chu 6 bawka puntir
 huan 6×6 emaw 36 emawa puntir tihna tluk a
 ni ang

TIHTUR V

Factor in puntir rawh —

1	23 × 24	6	29 × 5)
2	56 × 36	7/	35 × 35
3	72 × 27	8	53 × 49
4	72 × 42y	9*	123 × 66
5,	62 × 32	10	244 × 144

PUNTIR SEI

Number tam sawkte chu achang chuan Fac
tor lovin kan puntir thin a Chutiang chu PUN
TIR SEI kan ti mai thin Hetiang hian

$$\begin{array}{r}
 \text{I} \quad 4904 \times 836 \\
 \hline
 4904 \times 836 \\
 \hline
 3923200 = 4904 \times 800 \\
 147120 = 4904 \times 30 \\
 29424 = 4904 \times 6 \\
 \hline
 4099744 = 4904 \times 836
 \end{array}$$

$$\begin{array}{r}
 \text{II} \quad 4904 \times 836 \times \\
 \hline
 \begin{array}{|c|c|c|c|c|c|c|} \hline & & & 4 & 9 & 0 & 4 \\ \hline & & 2 & 9 & 4 & 2 & 4 \\ \hline & 1 & 4 & 7 & 1 & 2 & \\ \hline 3 & 9 & 2 & 3 & 2 & & \\ \hline 4 & 0 & 9 & 9 & 7 & 4 & 4 \\ \hline \end{array}
 \begin{array}{l}
 \times 836 \\
 = 4904 \times 6 \\
 = 4904 \times 30 \\
 = 4904 \times 800 \\
 = 4904 \times 836
 \end{array}
 \end{array}$$

Dân nâânin entîrna 2 na ang hîan kan puntîr sâwk mah thîn a ni Kan puntîrna kha pa hmun lama kan tan chuan pa hmuna a ehhuak chu kan dah taw a sâwm hmuna kan puntîr chuan sâwm hmunah kan dah tan a za hmunah a nih leh za hmunah chutiang xêlin Tichuan puntîr hmun 10 hnuai lam hmun chauh hria pawh in eng number pawh kan puntîr thei a ni

TIHTUR VI

Puntîr rawh — (Factor lovin)

1	874 × 42	7	1222 × 527
2	159 × 63	8	1926 × 264
3	165 × 75	9	642 × 307
4	625 × 238	10	1756 × 219
5	1024 × 297	11	876 × 709
6	746 × 243	12	505 × 207

S E M S E I

Number 1—16 chuan semtawun kan sem thei
 a Factor nei thei number pawhin factor in kan
 sem thei a Amaherawbohu number hian leh tam
 zawk factor nei thei lova kan sem dawn chuan
 sem taw; dānin a harsa a factor a zawn theih
 loh bawh avāngin emaw factor zawn aia a awl
 sam zawk vāng emaw a number pum chuan kan
 sem thin Chutlanga sem chu SFM SEI an ti thin

Hetiang hian — $6785 - 27 \times$

27)6785(251

54

138

135

35

27

8 a chuang

Ans 251 leh a chuang 8

Number eng anga hian pawhin be mi entirna
 dān ang hian eng number pawh awl takin a sem
 theih a ni

- 1 4922—17 to 55 to 47 to, 61 to hian,
- 2 50834—19 to, 23 to, 31 to, 99 to hian
- 3 69233÷103 to 123 to 187 to 191 to hian
- 4 586870—52 to 76 to 45 to 618 to hian

FACTOR SEM

Semtu number kha a lo len chuan sem tawia sem a harsa lutuk thin a chuvangin semtu number kha a factor kan zawng a a number a lo tet tak avangin sem tawin awl takin a lo sem theih leh thin a ni

Hetiingin — 1344—24

A semtu number 24 chu a factor kan zawng a
Tichuan $24 = 6 \times 4$ emaw 8×3

$$\begin{array}{r} \text{I} \quad 6)1344 \\ \quad 4)224 \\ \quad \quad 56 \end{array}$$

$$\begin{array}{r} \text{II} \quad 8)1344 \\ \quad 3)168 \\ \quad \quad 56 \end{array}$$

Tichuan $1344-24 = 56$

Factor in sem rawh —

1 924—12 4 896—16 7 1248—48

560⁺×20 5 972—36 8 2432—64

3 476—28 6 484—22 9 1155—35

TIHTUR VII

TINRENG

1 (a) A thuin siak rawh —

180012 74015 2060752

(b) Figure-in siak rawh —

Nandhah leh singkhat leh pakua singkua
leh sanghnih leh sawm leh pakhat, maktadua
hnih leh sawm

2 Huan pakhatat chuan mau 2671 theihai kung
983, sêrthlum kung 4200 a sawm a chu huana
thei kung leh mau sawng zawng chu engrât
nge!

3 Sêrthlum sangkhat naupang hnénah an sem a,
naupang sawng zawng chuan 5 theuhin an
chang a, naupang engrât hnénah nge an sem!

- 4 Thingrem pakhatat chuan sérthlum pum 378
a awm a chutiang thingrem 24 a sérthlum
chu engzátngé tling ang?
- 5 Napoleona chu 1769 ah a piang a kum 1821
ah a thi a a thihin engtia upa nge a nih?
- 6 Theihai pum 265 ka nei a mi pakhat hnénah
pum 15 zól pe ta íla mi engzát hnénah nge
ka sem theih ang?
- 7 7203 leh 4980 inthlaubna hi engzátngé?
- 8 Leikhabu pakhatat chuan phék 122 a awm
a phék tish chuan tlar 30 a awm theuh a,
chu leikhabu pumpuish chuan tlar engzátngé
awm ang?

INDIA TANGKA

Chéng	1	=	100	paise	=	(P)	=	(nP)
Duli	1	=	50	"				
Siki	1	=	25	,		"		
			10	,		"		
			5	,				
			2	,		"		
			1					

TIENTUR VIII

Belh rawh —

	Rs nP		Rs nP		Rs nP
1	215 36	2	187 69	3	365 09
	116 79		99 86		287 70
	79 98		416 78		319 80
	18 79		915 99		402 54

	Rs, nP		Rs nP		Rs nP
4.	1009 92	5	24 99X	6	1250 06
	75 09		795 42		614 17
	426 77		25 88		153 84
	518 56		76 79		678 29

AW

Paith rawh —

1	Rs nP	2	Rs nP	3	Rs nP
	345 09		1264 77		3916 78
	196 91		909 88		3825 95

4	Rs nP	5	Rs nP	6	Rs nP
	2897 36		3498 55 ½		3004 21
	1978 49		3009 48		2999 89

B

Puntir rawh —

1	Rs nP	2	Rs nP	3	Rs nP
	25 06 × 12		36 12 × 15 ½		75 48 × 16
4	Rs nP	5	Rs nP	6	Rs nP
	156 44 × 24		264 77 × 36		1754 39 × 86
7	Rs nP	8	Rs nP	9	Rs nP
	1647 77 × 215		919 68 × 175		7849 34 × 264
10	Rs. nP	11	Rs nP	12	Rs nP
	145 78 × 87		695 02 × 45		1786 16 × 329

CH

1	Rs 386 98—12	6	Rs 16849 80—165
2	Rs 1387 80 80X	7	Rs 29857 78—274
3	Rs 3825 72—36	8	Rs 2987 50—125
4	Rs 5764 71—97	9	Rs 8665 94—217
5	Rs 8067 57—123	10	Rs 24864 75—225

D

- 1 Rs 62004 12 ka nei a in lei nan Rs 5603 25
ka hmang a engzátngé ka hman bân ?
- 2 Kum khat ohhûngin sumdâwngtu pakhat chuan
Rs 6782 72 a khâwl a, a kum lehah chuan
Rs 3893 95 a khâwl belh leh a kum hnîh
chhûnga a khâwl zawng zawng chu oheng eng
zâtngé thug ?
- 3 Inhlawhfa 125 an awm a kum khat ohhûngin
Rs 560 54 theuh an hlawh a an vaia hlawh
finkhâwm chu engzátngé tling ang ?
- 4 Inhlawhfa 214 ka rui a an hlawh ka pèk
zawng zawng chu Rs. 3531 a ni a, engzât
theuh nge an hlawh ?

B U K N A

10 Grams (gm) = 1 Decagram (dg)

10 Decagrams = 1 Hectogram (hg)

10 Hectograms — 1 Kilogram (kg)

TIHTUR VIH 17

Belh rawh —

1 kg hg dg gm

215 7 8 6

105 8 4 9

605 9 8 7

3 kg hg dg gm

318 7 6 4

25 8 3 9

408 7 9 8

651 9 5 4

2 kg hg dg gm

302 7 6 3

214 4 5 8

302 6 3 5

415 7 9 4

4 kg hg dg gm

516 7 6 8

342 4 3 9

284 7 9 8

258 4 3 7

5	kg	gm	6	kg	gm	7	kg	gm
	22	168		312	724		321	105
	72	426		158	413		215	302
	136	376		236	802		412	707
	245	736		321	436		159	529

8	kg	gm	9	kg	gm	10	kg	gm
	325	101		105	642		186	902
	412	813		204	311		15	34
	213	54		506	654		78	105
	115	910		302	15		237	456

AW

Paib rawh —

1	kg	hg	dg	gm
	262	3	4	2 X
	159	7	9	3

2	kg	hg	dg	gm
	315	6	3	1
	206	7	4	9

3	kg	hg	dg	gm
	617	1	8	7
	591	9	9	8

4	kg	hg	dg	gm
	723	4	6	4
	309	9	8	7

5	kg	gm	6	kg	gm	7	kg	gm
412	311		258	134		2112	72	
153	509		179	897		1909	435	

8	kg	gm	9	kg	gm	10	kg	gm
468	15		536	712		1394	2	
389	702		448	887		916	149	

T.

Puntir rawh —

1	kg	hg	dg	gm	2	kg	hg	dg	gm
25	7	8	6×12		124	3	4	6×15	
3	kg	hg	dg	gm	4	kg	hg	dg	gm
256	7	8	7×16		314	5	8	7×25	
5	kg	hg	dg	gm	5	kg	hg	dg	gm
374	5	8	4×27		615	9	4	8×35	
7	kg	gm	8	kg	gm	9	kg	gm	
156	254×13		314	627×15		1421	106×16		
10	kg	gm	11	kg	gm	12	kg	gm	
847	614×24		1154	724×18		1194	436×25		

CH

Sem rawh —

1 kg hg dg gm
45 7 9 2-12

2 kg hg dg gm
164 8 7 9-13

3 kg hg dg gm
164 7 7 5-15

4 kg hg dg gm
243 7 2 8-16

5 kg gm
248 118-13

6 kg gm
376 380-15

7 kg gm
614 106-18

8 kg gm
897 392-16

9 kg gm
1274 875-14

10 kg gm
265 128-24

11 kg gm
625 125-25

12 kg gm
794 116-36

CHHINCHHIAH TÛR

Bu hnihnaah khâm dân h hmanga bûkna leh tehna tih dân zawn zawn chu chipohiar taka entir a nih tawh avângin Bu thumnaah h chuan entir tûl tawh lova hriat a ni a Chuvângin a dân entirna a awm tawh lo va Tin bûk lung hman ber chu Kilogram khat (1 kg) leh 500 gram (500 gm) — Kilo khat leh gram chauh hman a nih avângin — chu mi hmanga tih dân entir a ni Chutiang bawkin tehnaah pawh Kilometre metre centimetre h hman ber tûr a ni a harsa deuh mah sela — a hman dân h zir tel a tûl a ni

TEHNA

10 Centimetres (cm)	=	1 Decimetre (dm)
10 Decimetres	=	1 Metre (M)
10 Metres	=	1 Decametre (Dm)
10 Decametres	=	1 Hectometre (Hm)
10 Hectometres	=	1 Kilometre (Km)

100 Centimetres	=	1 Metre
1000 Metres	=	1 Kilometre

TINTUR X,

Boih rawh —

A

1	km	hm	Dm	m	dm	cm	2	km	hm	Dm	m	dm	cm
	24	8	6	4	3	9		124	7	5	3	4	6
	64	7	6	9	8	2		96	9	8	9	7	6
	125	8	6	5	4	3		214	7	3	5	4	2
	92	7	3	6	2	7		318	4	9	2	8	7
3	km	hm	Dm	m	dm	cm	4	km	hm	Dm	m	dm	cm
	262	3	8	3	4	5		362	3	4	2	9	7
	175	4	3	2	7	6		416	9	4	2	9	7
	463	9	7	2	8	5		278	0	1	8	0	9
	105	7	3	1	4	7		95	7	4	5	6	8
5	km		m		cm		6	km		m		cm	
	24		425		36			12		926		70	
	12		184		72			4		256		64	
	34		526		64			23		183		92	
	5		316		28			15		306		54	
7	km		m		cm		8	km		m		cm	
	44		464		17			35		72		18	
	62		735		83			23		605		39	
	154		106		25			16		569		78	
	8		59		63			30		191		63	
9	km		m		cm		10	km		m		cm	
	27		905		76			212		75		86	
	5		160		50			312		879		94	
	72		342		46			5		317		21	
	8		561		31			12		105		35	

A W

aib^hrawb —

km	hm	Dm	m	dm	cm	2	km	hm	Dm	m	dm	cm
36	1	8	4	2	1		56	3	2	4	1	5
29	9	9	7	0	9		17	3	9	6	5	7

km	hm	Dm	m	dm	cm	4	km	hm	Dm	m	dm	cm
45	3	7	2	4	1		72	3	2	1	4	1
33	2	9	1	5	8		66	4	2	9	3	9

5	km	m	cm
	33	145	27
	7	685	19

6	km	m	cm
	25	5	7
	3	816	7

7	km	m	cm
	18	104	21
	17	552	84
9	km	m	cm
	125	115	36
	78	826	45

8	km	m	cm
	25	615	36
	19	666	29
10	km	m	cm
	98	24	1
	18	536	45

B

Puntir rawh +

	km	hm	Dm	m	dm	cm
1	34	7	6	6	8	7 × 12
2	42	3	4	2	7	5 × 14
3	14	2	7	4	1	8 × 13
4	21	7	4	9	8	3 × 16
5	124	2	8	2	3	6 × 15
6	21	2	6	3	4	5 × 23
7	16	7	8	9	6	7 × 24
8	33	2	9	1	8	3 × 25

	km	m	cm		km	m	cm
9	21	412	76 × 15	13	121	812	91 × 16
10	16	527	39 × 21	14	15	764	27 × 18
11	42	101	16 × 26	15	14	24	82 × 15
12	62	642	71 × 25	16	132	927	96 × 24

CH

m rawh —

	km	hm	Dm	m	dm	cm
1	15	6	2	3	4	2 — 12

2	25	7	6	4	7	5 — 15
---	----	---	---	---	---	--------

3	42	3	4	6	1	7 — 13
---	----	---	---	---	---	--------

4	34	8	9	7	9	2 — 16
---	----	---	---	---	---	--------

5	78	9	2	1	8	1 — 27
---	----	---	---	---	---	--------

km	m	cm		km	m	cm
333	421	92—16	9	180	765	75—15

164	825	96—12	10	323	540	98—14
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316	750	35—15	11	125	626	25—25
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TIENTUR KI

TINRENG

- 1 Mi pakhat hnénah hruizén 20 km 2 m 9 cm
in ka pe a, mi dang hnénah 25 km 11 m
ka pe leh a tin 200 km leh 4 m leh 3 cm
ka la nei a, a tirah engtia sei ngo ka neih?
- 2 Ka zin kawngah 10 km 2 m ka kala 3 km
55 m ka kal leh a, 2 km 3 m 40 cm kal
tûr ka la nei fo va ka zin kawng chu engtia
hia ngo?
- 3 Lazai 200 km a sei atangin 136 km 10 m
pah la engtia sei ngo la awm ang?
- 4 Km 16 kal tûr ka nei a 8 km 6 m 20 cm
ka kal huin engtia hia ngo kal tûr ka la
neih?
- 5 Vawi khat zuanah 13 Dm 6 cm ka zuang thei
a vawi 7 ka zuanin engtia thui ngo ka zuan
ang?
- 6 Thirsakawrin dârkâr khatah 6 km 8 m 10 cm
ka tian a dârkâr 9 ah engtia hia ngo ka tian
ang?
- 7 Pindan 5 a dung lam isohen theuh a awm a
pindan pakhat dung lam chu 6 m 4 cm a
ni a, pindan 5 chu sawm khawm ta hia eng
tia sei ngo ni ang?

- 8 Thirsekawrah ka chuang a dârkâr khatnaah
10km 6m 5cm ka tlân a dârkâr 2 naah
16km 7m 2cm ka tlân a dârkâr 3-naah
21km 7m 11cm ka tlân a dârkâr 3 ohhûng
chuan engtia hla nge ka tlân ang?
- 9 Puan thuituin kamis 6 atân 24 m hmang sela
kamis pakhat atân engtia sei nge a duh ang?
- 10 Mî pakhatin hruizên 17m 2dm a nei a, om
engzâtngê tling ang?
- 11 Naupang pakhat chuan vawî khat tumah 1m
2cm tum thei sela vawî 8 tumah engtia thu
nge a tum ang?
- 12 Ni khatab 23km 83m ka kal thei a Lala
chu 26km 24m a kal thei a engtia thuî nge
kei aui a kal theih ang?
- 13 Tukverh 6 atân puan zâr tûr 17m 2cm a
ngai a tukverh pakhat atân puan engtia sei
nge ngai ang?
- 14 2km 6m 14dm 2cm hi em engzâtngê ni?

BILL SIAM DÂN

Mua dăwrkaiah emaw thăi a baa a lei chuan
 a leina chuan a ba chu a thăin hunin lehkhain Pa
 thăing thăin a ohetiang tihna chu "Bill an ti thăin
 a ni

Entir năn — Thangan dăwrkaiah a baa a
 lăkte chu puan m 12 @ Rs 2, chi kg 20 @ 50 np
 lehkhatur bư 6 @ Rs 1 25 np a ni a bill siam
 rawh —

	Rs np
*1 Puan 12 m @ Rs 2/	24 0
2 Chi 20 kg @ 50 np	10 0
3 Lehkhatur bư 6 @ Rs 1 25 np	7 50
	<hr/>
Avann Rs	41 50 np

TINTUR XII

Heng bill hi siam chhuak rawh —

- 1 Puan Rs 5 86 np man ei tăr Rs 6 43 np
 na man Rs 8 46 np. năn
- 2 Chithlun kg 10 @ 62 np zel, chi Kilo 4 @
 40 np zel, tui lun bái 1 Rs 2 50 np man,
 no 6 @ 25 np zel x

- 3 Puan 6 m @ Re 1 50 np sam phiar puan 6 m @ 12 np bakkulh 12 @ 4 np nihlap 3 @ Re 1 75np
 - 4 Buhfai kg 10 @ 56 np zél chhangphut kg 3 @ 25 np zél khawnvartui tin 1 Rs 5 50 np laltin 2 @ Rs 1 62 np zél
 - 5 Lebkhabu 6 @ Re 1 75 np zél lebkhabu 6 @ 56 np zél lehkhatur búr 6 @ 32 np zél kawlawm doz 12 @ 62 np dozen khat zelah
 - 6 Pheikhawk bun khat Rs 4 75 np khaidiat 3 m @ Re 1 25 np zél lunglebkha 4' @ 2 np zél fencol 6 @ 12 np zél
- Alu kg 7 @ 75 np zél purân kg 10 @ 56 np zél darluah kg 2 @ 86 np zél thingpui kg 2½ @ Rs 5 50 np zél X
- 8 Thutthlêng 6 @ Rs 4 50 np zél dawhkân 1 Rs 5 75 np man' no 6 @ Rs 1 50 np thingpui thitna 1 Re 1 25 np man

HUN BI TBHNA

60 Second (sec)	=	1 Minute (1 min)
60 Minute	=	1 Hour (1 hr)
24 Hour	=	1 Day (1 da)
7 Days	=	1 Week (wk)
365 Days	=	1 Year (yr)
366 Days	=	1 Leap year
100 Years	=	1 Century

CHANTIR

Entirna —

Hei bi second ah chantir rawh —

7 da	9 hr	10 mins	20 sec	
7 da	×			
24				
168 hr	+			10630 min
9				60
177 hr	×			637800 sec
60				20
10620 min	+			637820 sec.
10				
10630 min				637820 sec. Ans.

TINTUR XIII

A

Hêngte hı second ah chantır rawh —

1	2 hr	5 min			
2	7 hr	6 min	5 sec		
3	2 da	20 hr	25 min	50 sec	
4*	1 wk	3 da	15 hr	20 min	30 sec
5	2 wk	6 da	15 hr	26 min	16 sec
6	3 wk	5 da	12 hr	22 min	45 sec x

AW

Hêngte hı (days) nı ahte chantır rawh —

1	3 wk*		5	3 wk	4 da
2	7 wk	4 da	6	12 wk	5 da
3	4 wk	6 da	7*	2 yr	2 wk 6 da
4	8 wk	6 da	8	3 yr	3 wk 4 da *

B

Hêngte hı dârkârah chantır rawh —

1	11 da		5	3 wk	5 da	7 hr
2	9 da	12 hr ¹	6	1 wk		
3	2 wk	3 da	4 hr	7+	1 wk	2 da 15 hr
4	5 wk	6 da	20 hr	8	15 da	12 hr

Entirna —

Hei hi hours (därkär)-ah te, minutes ah te,
second ah te chantir rawh —

7000 sec

60)7000

60)116 min 40 sec

1 hr 56 min

1 hr 56 min, 40 sec Ans

Hêngte hi niah te, därkär ah te minute ah te
chantir rawh —

1	5000 sec	5	140805 min	9	28 hr
2	9870 sec	6	140 hr	10	63 hr
3	80916 sec	7	124 hr	11	77 hr
4	691040 min.	8	156 hr	12	94 hr

13 Aizawl atangin Zémabawk kal nân därkär 3
leh minutes 30 ka hman a, second eng
zátngé ka hman ták ?

14. Ni khat hi därkär 24 a ni a

(1) Ni khatah minute engzátngé awm ?

(2) Ni khatah second engzátngé awm ?

15 I thian chu nang aha ni 15 in a upa a, där
kär engzátngé a upat ang ?

16 Mihring narán mar phu hi minute 1 ah vaw
75 a ni a, därkär 1 ah vaw engzátngé a
phút ang ?

TIHTUR XIV

BELH

Belh rawh —

A

1	min	sec	2	min	sec	3	min	sec
	10	21		9	45		45	55
	6	8		10	16		2	15
	9	4		25	9		5	33
4	min	sec	5	min	sec	6	min	sec
	2	31		29	39		3	40
	15	59		8	49		2	45
	26	40		6	50		1	25
7	min	sec	8	min	sec	9	min	sec
	4	53		15	9		19	29
	10	19		6	42		20	38
	2	59		3	37		2	49
10	min	sec	11	min	sec'	12	min	sec
	4	19		1	48		8	30
	2	55		2	50		2	10
	1	45		39	16		3	20

AW

Belh rawh —

1	hr min, sec	2	hr min sec	3	hr min sec
	8 10 20		2 25 39		7 6 5
	9 12 15		8 50 45		8 51 29
	2 1 3 ✓		3 25 25		5 26 38
4	hr min sec ✓	5	hr min sec	6	hr min sec
	3 20 30		7 9 16		8 25 40
	1 9 20		8 28 45		3 26 20
	2 30 10		4 46 23		1 9 0
7	hr min sec ✓	8	hr min sec	9	hr min sec
	6 29 15		2 27 18		2 23 45
	8 45 6		1 46 28		1 16 20
	9 26 10		2 25 38		2 15 15
10	da hr min	11	da. hr min	12	da hr min
	1 15 35		1 16 20		3 17 20
	3 8 20		2 5 10		1 18 25
	1 6 40		1 3 30		2 20 30
13	da hr min ✓	14	da hr min	15	da hr min
	1 14 25		2 20 30		1 20 46
	2 8 15		1 16 45		2 15 14
	1 19 25		3 22 15		1 20 15
16	da. hr min ✓	17	da hr min	18	da hr min
	2 15 30		1 18 22		1 20 43
	1 15 15		2 16 45		1 18 30
	2 15 8		1 14 40		2 23 20

TIHTUR XV

PAIH

A

Path rawh —

1	min sec	2	min sec	3	min sec
	21 17		36 55		45 40
	10 7		15 29		16 50
4	min sec	5	min sec	6	min sec
	55 51		34 24		21 52
	17 29		18 19		5 39
7	min sec	8	min sec	9	min sec
	86 2		24 5		50 10
	7 35		17 47		27 40

AW

1	hr min sec	2	hr min sec
	8 25 10		6 20 10
	6 12 5		2 18 18
3	hr min sec	4	hr min sec
	9 2 46		12 20 8
	7 30 17		6 8 37
5	hr min sec	6	hr min sec.
	9 2 46		18 20 17
	7 30 17.		17 7 12

CH

1	da.	hr	min	2	da	hr	min
	45	9	21		36	42	9
	20	56	18		18	59	21
3	da	hr	min,	4	da	hr	min
	6	20	40		5	3	10
	2	9	20		4	1	20
5	da	hr	min	6	da	hr	min
	3	5	16		3	2	16
	1	2	18		1	2	14
7	da	hr	min,	8	da	hr	min
	5	7	18		4	5	6
	2	9	15		1	7	8
9	da	hr	min	10	da	hr	min
	3	21	52		1	21	31
	1	22	53			21	9

TIENTUR XVI

PUNTIR

A

Puntir rawh --

	min	sec		min.	sec
1	12	6×6	5	21	52×12
2	10	8×8	6	43	46×16
3	10	8×7	7.	25	17×18
4.	21	10×6	8	53	49×14

AW

	hr	min	sec		hr	min	sec
1	1	4	10×4	9	2	5	12×4
2	3	9	6×5	10	4	12	20×5
3	21	15	20×6	11	6	18	35×6
4	2	42	55×7	12	5	22	10×7
5	19	26	29×8	13	3	23	59×8
6	22	48	26×9	14	1	0	40×9
7	5	18	45×10	15	2	0	50×12
8	11	23	26×12	16	6	21	45×16

TIHTUR XVII

SEM

A

Sem rawh —

	min	sec		min	sec
1	10	4-2	6	50	8-16
2	20	8-4	7	72	10-10
3	56	42-7	8	49	24-12
4	25	18-3	9	91	30-9
5	27	44-13	10	46	18-6

AW

Sein rawh —

	hr	min	sec
1	12	16	9-3

	hr	min	sec
5	22	6	0-8

2	23	20	8-4
---	----	----	-----

6	21	18	48-12
---	----	----	-------

3	18	21	17-7
---	----	----	------

7	18	40	12-9
---	----	----	------

4	19	45	5-5
---	----	----	-----

8	15	25	36-12
---	----	----	-------

B

	da	hr	min.
1.	3	12	6-3

	da.	hr	min
5	5	13	20-8

2	5	18	0-3
---	---	----	-----

6	8	16	16-16
---	---	----	-------

3	6	21	5-5
---	---	----	-----

7	11	20	50-5
---	----	----	------

4.	4	8	4-7
----	---	---	-----

8	13	46	0-12
---	----	----	------

TIHTUR XVIII

- 1 Ka zin obhuah nín 3hrs 40min ka kal a a
ni hnih nash 5 hrs 30 min ka kal leh a, a
ni thum nín 7 hrs 50 min ka kal leh a ni
thum chhûng chuan engtia rei nge ka kal ?
- 2 20hrs 35min 10sec leh 2hrs 50min 5sec
inthaubna chu engtia rei nge ni ang ?
- 3 Ní tin Sikulah dârkâr 4 leh minute 45 kal vél
ila chawlhkâr hnih chbûngin Sikulah chuan
engtia rei nge ka kal ? (Chawlhkâr khatah ni
5 zêl Sikul kal ni a ni)
- 4 Km 2 kal nân 15min 15sec ka hmang a
km 22 kal nân engtia rei nge ka hman ang ?
- 5 Mí pakhat chu 7 da 20 hrs chbûng a zinna
kawngah a kal a chu mí kawng vékah chuan
mí dang a kal ve a 6 da 10 hrs 35 min a
thang a an thang rei bleihna zawng chhuak
rawh ?
- 6 Chawlhkâr khatah dârkâr engzâtngé awm ang ?
- 7 Dârkâr khatah km 5 ka tlân thei a, km
khat tlân nân minute engzâtngé ka hman ang ?
- 8 Mí pakhat chuan ní 42 leh dârkâr 6-ah in a
sa zo thei a, mí 6-in engtia reiah nge chu in
chu an sak zawh theih ang ?

NI LEH THLA CALENDAR THLA

Calendar ang chuan kum khat bi hun 12 a
then a ni a Thla hming indawt dân leh ni awm
zât zêlto chu hetah hian kan hma a —

No	Thla hming	Ni zât	No	Thla hming	Ni zât
	January	31	7	July	31
1	February	28*29	8	August	31
3	March	31	9	September	30
4	April	30	10	October	31
5	May	31	11	November	30
6	June	30	12	December	31

* Kum thum dân zêlah (kum 4 naah February
hian ni 29 a nei thîn a chu chu Leap year an
ti a ni

Kum te chu leap year a nih leh nih loh
chhât duh ta ila hetiang hian an ti thîn —

Kum zât chu 4 in sem la a chuang awm blek
lova 4 chuan a sem ral chhih theih chuan chu
kum chu leap year a ni ngai ang - Chutichuan
1940 to 1944 to 1948 to hi leap year an ni,
tin 1941 to, 1942 to, 1943 to, 1945 to hi kum
pânggai nân an ni

Bogpawh ni se hetia kan han sawi loh ngaih
dân ringawt chuan kum 1-ah hian chawihkar 52
awm kan ngai a. Mahsela dik takin kum pâng

ngaish hian chawlhkâr 52 leh ni 1 a awm a tin
leap year ah chuan chawlhkâr 52 leh ni 2 a awm
a ni

Chhiarkawpah han dân nârânin ni kan han
chhiar hian a tan ni emaw a tâwp ni emaw chah
chhiar tel a ni Sawi kher loh chuan ri chhiar
tan ni emaw ni chhiar tâwp n emaw chah chu an
chhiar tîin a ni mahse chhiar tan ni leh chhiar
tâwp ni chu chhiar tel tûr a nih chuan an sawi thin
Entirna —

1 M rob ni 23 atanga May ni 12 thleng chu n
engzâtngê ni ang?

Ni hmasa ber chhiar lovin hetiang hi a ni ang —

March ni 24 atanga March ni 31 = 8 ni

April = 30 ni

May ni 1 atanga May ni 12 = 12 ni

A vauin 50 ni

2 March 23 atanga May 12 thleng chu sikul
chawlh a ni a (chhiar tan ni leh a tâwp ni
chhiar n) a vauin engzâtngê ni ang?

March 23 atanga March ni 31 = 9 ni

April = 30 ni

March ni 1 atanga May ni 12 = 12 ni

A vauin 51 ni

- 3 Meilawng pakhat chuan December ni 14 1935
ah a chawlhna hmun a chhuahsan a March
ni 5 1936 ah a chawlhna chu a lo thleng leh a
Ni engzatnge a thang bo!

Dec ni 14 atangin Dec ni 31 thlengin = 17 ni

January = 31 ni

February = 29 ni

March ni 1 atanga March ni 5 thlengin = 5 ni

A vahn ni 82 Ans

Kum 1936 khi 4 in a chuang' awm lovin a
sam sal chiah avangin 1936 khi chu leap year'
a ni a chuvangin February thia khian ni 29 a
nei a ni

TIRTUR XIX

- 1 Heng Kumte bi kum narān nge an nih leap
year zawng chhuak rawh, — (a) 1894 (b) 1908
(c) 1923 (d) 1938 (e) 1948 (f) 1950
- 2 Kum chanve hma lam January thia atanga
June thia tawp thleng nge ni tam, kum chan-
ve hnu lam July thia atanga December tawp
thleng nite chu! Engzatnge (Kum narān
leh leap year ah) a intam hleih?

3 Mi pakhat chuan April thlain Ra 450 a blawh a April ni 1 atanga ni 10 thlenga a blawh chu engzatnge ? (ni 1 na leh ni 10 na pawh chhuar teln)

4 Heng inkhar nite hi engzatnge ?

- (a) April ni 11 atanga August 26 thlengin
- (b) July ni 14 atanga November ni 7 thlengin
- (c) February ni 19 atanga September ni 6 thlengin (1936 kumab)
- (d) October ni 24 atanga March ni 5 thlengin (1939 ah)

5 Leikhathawn hi Sâp ram thleng tûrin ni 19 a duh a Zirtâwpni 29th December 1933 ni zingah dâk inah lekhka ka thlak a a kal ta nghal a Eng ni leh tahrikah nge Sâp ram chu a thlen ang ?

6 Indopui pakhatna kha August 4 1914 ah tar, a ni a, tin November 11 1918 ah a tâwpa ~~thawh to, thlawh to, ni to naa chhah to~~ chhah nge a awb zawng chhuak rawh

THHTUR XX FRACTIONS

Figure A

WWWW	
WWWW	
WWWW	
WWWW	

Hông éntirna lem 3 hi
on la figure A hi bmun
2 ah intlak renga then
phawk a ni a Amahera h
chu he mi then phawk hi
a then khat zawk chauh hi tihdum a ni a Ti
chu n a dum ch n chauh hi kao lak hran chu n
a pum pui chavé $\frac{1}{2}$ kan ti thín a ni

Figure B

WWWW	
WWWW	
WWWW	
WWWW	

Figure B-ah Lian a
pum pui chu intiat theuh
hmun 4 ah kan then a
Nimahsela then hmun
khat chauh hi tihdum a n
a Chuvàngin khi mi a dum khi $\frac{1}{2}$ (hmun lia
t ena hmun khat) a ni Chu mi awmzia chu then
4 stanga then khat chauh khi kan la tihna a ni

Figure C

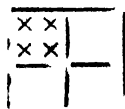
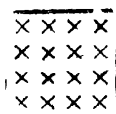
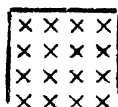
WW			
WW			
WWWW			
WWHH			

Chutiang bawkin Figure
C ah hian then 8 intiat
theuh a awm a mahse
then 3 chauh hi lak hran
a ni a Tiehsun khi mi
then 3 tek khi chu y a ni

TIENTUR XXI

A

- 1 Hông fraction awmzia bi i rin ngilna nen a
lemia entir rawh — $\frac{1}{2}$ $\frac{2}{3}$ $\frac{7}{10}$
- 2 Chêng khatah chuan 100np a awma 30 np
50np 60 np bi chêng fraction in dah rawh
- 3 1 kg 7 kg 13 kg 9 kg 23 kg te bi
kg fraction in d h rawh



He thil lem pathnnte bi en la square
 a te bi a puma thai han vek a ni a pakhat
 erawh khi chu a then chauh thai han a ni
 Tichuan thai han zawng khi chu a pumpui
 pahih leh a pum $\frac{1}{4}$ a ni chu chu $2\frac{1}{4}$ tihna a
 ni

FRACTION CHANTIR

Tûnah decagram 4 bi gram ah kan
 chantir duh chuan 10 in kan puntir a 4 dg
 $\times 10 = 40$ gm a ni tih kan bre tawh a
 Chutiang bawkin decagram ting lo (fraction)
 pawh chu gram ah kan chantir duh chuan
 10 in kan puntir tho a ni

Hetiangin $\frac{1}{10}$ dg hi dg ah chantir rawh —
Decagr m $\frac{1}{10}$ awmzia chu dg 1 kha hmun 10 ah
kan sem a chu mi hmun 10 a thena hmun 7 ate
kha tihna a ni Dg 1 (10 grams) hmun $\frac{1}{10}$ chu

++	++	++	++	
++	++	++	++	
++	++	++		
++	++	++		

10 hi 10-a sem tihna a
ni a, chu hu gram 1
a ni a Tichuan Deca
gram 1 hmun $\frac{1}{10}$ chu

$$1 \times 7 = 7 \text{ grams a ni}$$

Chutiang bawkin Rs $\frac{1}{4}$ hi nP a kan chantir
chuan, Rs $\frac{1}{4}$ chu np 100 hi 5-a sem tihna ni a
chu chu np 20 tuk a ni Tichuan Rs $\frac{1}{4}$ chu
 $20np \times 4 = 80np$ a ni Rs $\frac{1}{4}$ chu Re 1 hmun 5 a
thena hmun 4 tihna a ni Tichuan cheng khata
np awm zat 100-in kan puntir ang a —

$$Rs \frac{1}{4} \times 100 = 80np$$

AW

1 Heng fraction/te hi a lemin entir rawh —

$$1\frac{1}{2} \quad 2\frac{1}{2} \quad 1\frac{1}{2}$$

2 Re 2 30 np Re 5 60 np Re 1 50 np
Re 1 75 np te hi cheng fraction ah daw
rawh.

- 3 6 dg 4 gm 7 dg 5 gm 11 dg 13 gm
19 dg 11 gm te hi dg ah dah theuh rawh
- 4 3 m 1 cm 6 m 2 dm te hi metre-in dah
rawh

B

- 1 Heng cheng fraction hi np ah chantir rawh —

$$1, \frac{1}{4}, \frac{1}{8}, \frac{6}{4}, \frac{9}{8}$$

- 2 Heng kilogram fraction hi gram ah chantir
rawh —

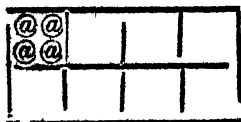
$$\frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \frac{1}{32}, \frac{1}{64}, \frac{1}{128}, \frac{1}{256}$$

- 3 Heng metre fraction te hi centimetre ah chan
tir rawh —

$$\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}$$

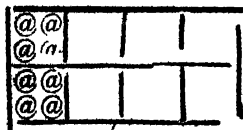
FRACTION INTLUKTE

Fig 1



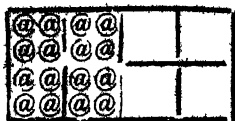
$$\frac{1}{8}$$

Fig 2



$$\frac{1}{4}$$

Fig 3



Heng figure-te bi hmun 8 ah kan then theuh a. Figurure 1 ah huan then khat chauh kan la a tichuan $\frac{1}{2}$ a ni

$\frac{1}{2}$

Tin fig 2 ah huan then 8-a then hnh chauh chu kan la a chu chu $\frac{2}{3}$ kan ti a. Tin fig 2 bi hmun 4 a then angin kan ngai thei bawh a chutianga kan ngaih chuan khi mi thai han khi $\frac{1}{2}$ a lo ni a. Chuvangin $2 = x$ a ni.

Chutiang bawkin fig 3-ah pawh hian then 8 te zinga then 4 chauh kan thai hang a chu chu $\frac{1}{2}$ tluk a ni. Amaherawhchu a pumpui khi hmun hnh chauhva then aya kan ngaih chuan then khat chauh kan thai hang $a = \frac{1}{2}$. Tichuan thai han chin chu $\frac{1}{2}$ emaw $\frac{1}{2}$ emaw kan vush a ni.

He mi tih dân hian fraction chu a chung lam leh a hnuai lam kha number thuhmuna kan pun tir chuan a danglam chuang lo tih entir a ni

$$\frac{1 \times 4}{2 \times 4} = \frac{1}{2} \text{ a ni si a}$$

$$\frac{1 \times 2}{3 \times 2} = \frac{1}{3} \text{ a ni si a.}$$

Chutiang bawkin number inanga a chung lam leh a hnuai lam kan sem chuan a hnutna chu a danglam chuang lo

Hetiangan —

$$\frac{2-2}{4-2} = \frac{1}{2}$$

$$\frac{2-2}{8-2} = \frac{1}{4}$$

CH

1 Hông entirea tûr hian oblong siam rawh —

$$\frac{2}{4} = \frac{1}{2} \quad \frac{2}{8} = \frac{1}{4} \quad \frac{2}{8} = 1$$

2 Hông fraction te hi a tē thei angin dah rawh —

$$\frac{2}{10} \quad \frac{1}{12} \quad \frac{1}{10} \quad \frac{1}{8}$$

FRACTION BELH

$$\frac{5}{12} + \frac{2}{12}$$

A hnua: zâwk hi number thuhmun a nih phawt chuan a chung lama mite hi kan belh mai a ni

$$\frac{5+2}{12} = 1$$

D

Belh rawh —

$$1 \quad \frac{1}{10} + \frac{1}{10} \quad \frac{1}{12} + \frac{1}{12} \quad \frac{1}{10} + \frac{1}{10}$$

FRACTION PAIH

Hattir nân → $\frac{1}{2} - \frac{1}{4}$

He mi awmzia chu $\frac{1}{2}$ atang hian $\frac{1}{4}$ kan la dâwn tihna a ni np 5 atanga np 1 kan lak chuan np, 4 a bâng tih kan hria a chotiag bawh chu a ni $\frac{1}{4}$ chu $\frac{1}{2}$ atanga kan lak chuan $\frac{1}{4}$ a la bâng a

$$\text{Chuvângin } \frac{1}{2} - \frac{1}{4} = \frac{2}{4} - \frac{1}{4} = \frac{1}{4}$$

E

Paih rawh —

$$1. \frac{2}{10} - \frac{1}{10} \quad \frac{4}{5} - \frac{1}{5}, \quad \frac{11}{15} - \frac{1}{15}$$

FRACTION NUMBER PUMA PUNTIR DÂN

Chéng 3 hị 7 a kan puntir chuan chéng 21 a ni a Chutiag bawh $\frac{1}{4}$ hị 7-a kan puntir chuan huan lia then hlii vaw 7 hneia 4 a ní a = $\frac{1}{4}$ Chu mi awmzia chu a chung xawh chauh kan puntir tihna a ni

$$\text{Chu chu } \frac{1}{4} \times 7 = \frac{7}{4} = 1\frac{3}{4}$$

Number pum engataga awm tih hre tûr chuan a hual xawh khân a chung ka sem a

$$\text{Hetrangin — } \frac{7}{4} = 1\frac{3}{4}$$

F

Hông Fraction hì puntir rawh —

$$1 \quad \frac{1}{2} \times 2 \quad \frac{1}{3} \times 3 \quad \frac{1}{4} \times 4 \quad \frac{1}{5} \times 5 \quad \frac{1}{6} \times 6 \quad \frac{1}{7} \times 7$$

FRACTION SEM

Rs $9 - 3 = 3$ a ní a chutiang bawkin $\frac{1}{2} - 3 = \frac{1}{2}$

G

Sem rawh —

$$\frac{1}{2} - 5 \quad \frac{1}{3} - 4 \quad \frac{1}{4} - 3 \quad \frac{1}{5} - 4 \quad \frac{1}{6} - 5$$

RULE OF THREE (Unitary Method)

Entiraa —

Âr 8 man chêng 4/ ní sêlâ âr 12 man engsâtage
ni ang!

Âr 8 man chu chêng 4

$$\begin{array}{r} 1 \\ 4 \\ \hline 8 \end{array}$$

$$12 \quad \frac{4 \times 12}{8} = \frac{48}{8} = 6$$

Âr pakhat man chu âr 8 man hmua 8 a thea
hmua khat a ní a Chuvângin âr 8 man chu 8 a
kan sem chuam âr pakhat man a lo ní ang a.
Âr 12 man chu âr 1 man lét 12 a nih avângin
12-in kan puntir ang a chu chu a dikna a ní.

TINTUR XXII

A

Mental —

- 1 Âr 6 man Rs 7 80 a ni a Âr pakhat man
zawng chhuak rawh
- 2 Âr 12 man Rs 10 60 a ni a pakhat man
zawng chhuak rawh
- ✓ 3 Artui 12 man 1 20 a ni 1 man bre rawh ?
- 4 Dawhkan 4 man Rs 16 40 a ni pakhat man
bre rawh ?
- 5 Thutthleng 6 man Rs 18 72 a ni a 1 man
engsátngé ni ?
- 6 Bub 200kg man Rs 120 50 a ni a, kg khat
man engsátngé ni ?
- 7 Sêrthlum phur 10 man Rs 16 40 a ni a phur
1 man bre rawh ?
- 8 Thêl 8 man Rs 31 60 a ni, thêl 1 man
zawng chhuak rawh
- 9 Chh kilo 12 man Rs 2 40 a ni a, kilo 1 man
zawng chhpak rawh

AW

- 1st Âr 9 in Rs 5 50 man sela Âr 10 in engzâtng e man ang ?
- 2 Thutthlêng 4 man Rs 26/ ni sela thutthlêng 9 man engzâtng ni ang ?
- 3 Herhsâwp 12 in Rs 36 72 man sela herhsâwp 8 in engzâtng e man ang ?
- 4 Berâm 7 in Rs 18 man sela, berâm 10 man engzâtng ni ang ?
- 5 Kêl 7 in Rs 42 man sela kêl 16 in engzâtng e man ang ?
- 6 Sakawr 4 in Rs 240 man sela sakawr 12 in engzâtng e man ang ?
- 7 Pheikhawk bun 12-in Rs 60 80 man sela pheikhawk bun 4 in engzâtng e man ang ?
- 8 Lehkhatui bûr dozen 6 man Rs 7 74 ni sela, lehkhatui bûr dozen 8 man engzâtng ni ang ?

B

- 1 Artui dozen 1 in 55 sp man sela, artui dozen 10 man engzátngé ní ang!
- 2 Bâwngpui 1 man Rs 112 ní se bâwngpui 8 man engzátngé!
3. Suahdûr 1 man Rs 4 75 ní se suahdûr 12 man engzátngé!
- 4 x Thosilên 1 man Rs 4 25 ní se thosilên 6 man engzátngé!
- 5 Khum 1 man Rs 6 ní se khum 16 man engzátngé?
- 6 Almirah 1 man Rs 70 50 ní se, almirah 9 man engzátngé!
- 7 Alu kilo 1 man 25 ní se, alu kilo 16 man engzátngé!
- 8 Hla bu 1 man Rs 2 25 ní se, hla bu 12 man engzátngé!

CH

- 1 Buh ip 7 rih lam oñu 36kg 4hg a ni chu
tiang buh ip 10 chu engta rit nge ?
- 2 Sakawr 8 in bubhûm 16kg ei thei sela sakawr
11 in engzâtng e an ei thei ang ?
- 3 Bâwng 5 in buh 364kg 5hg phur zo sela,
bâwng 9 in engzâtng e a phur ang ?
- 4 Dawrawn 12 ah sérthlôm pum 1800 leng sei
dawrawn 10 ah engzâtng e leng ang ?
- 5 Naupang 28 ðhutthlêng sei 4 ah leng e la
naupang 140 chu ðhutthlêng engzâtah nge
len ang ?
- 6 Puan metre 15 in kamis 5 dah sela kamis 16
dah metre engzâtng e ni ang ?
- 7 Mî 1 in dârkâr 12 ah km 36 kal thei sela dâr
kâr 8 ah km engzâtng e a kal ang ?
- 8 Naupangin ni 5 ah lebkhâbu phêk 20 chbiar
sela phêk 45 chbiar nân ni engzâtng e a duh
ang ?
- 9 Nula 6 in tuñm 36 phur zo sela nula 11 in
ñm engzâtng e an phur ang ?
- 10 Sîkul 16 tân lunglehkha 80 tâwk ang sela
sîkul 32 tân lunglehkha engzâtng e tâwk ang ?

RULE OF THREE

*Entirna —

Mi 6 in ni 8-ah in pakhat sa zo thei sola ni engzátahnge mi 18-in an sak zawh ang ?

Mi 6 in ni 8 ah an sa thei

, 1 , 8×6

$$18 \quad , \quad \frac{8 \times 6}{18} = \frac{48}{18} = 2\frac{2}{3} = 2\frac{2}{3}$$

In khat sa tûr chuan mi 6 ai chuan mi pakhat chuan a duh rei dâwn a mi pakhat chauh vin a thawh dâwn chuan mi 6 ni khat thawh kha ni 6 a belh thung dâwn avângin kan puntir a mi 18 erawh chuan mi pakhat thawh lét 18 a rei lo an thawk ve thung dâwn a chuvângin kan sem thung a ni

TIHTUR XXIII

- 1 Mi 10 n ni 11 ah buan an let zo thei a, mi 12 in ni engzátahnge an zawh theih ang ?
- 2 Nola 6-in hapta 4 ah (hapta 1 — ni 7) puan an tah zo thei ni engzátahnge nula 8 in an tah zawh theih ang ?

- 3 Sakawr 8 in bubhôm nî 12 a an ei zaw theih chu nî engzâthnge sakawr 16 in an ei zawh ang?
- 4 Hlobet hmun pakhat chu nî 40 chbûngin be râm 20 in pet fai thei sela berâm 12 in nî engzâthnge an peh zawh ang?
- 5 Naupang 10 in sikul huan thla khat (nî 10) h siam zo thei sela naupang 20 nî engzâthnge an siam zawh ang?
- 6 Mî 16 in nî 20 ah lung phur zo thei sela 32 in nî engzâthnge lung chu an phurh zo theih ang?
- 7 Buhfai engemaw zât mî 12 in nî 18 chûng ei tâwk sela mî 16 tân nî engzât tla nge nî ang?
- 8 Huan pakhata sêrthlum zawng zawng chu mî 20 in nî 8 chbûngin lo zo thei sela mî 12 in nî engzâthnge an lawh ang?
- 9 Puanthui 6 in thawmbhawn dârkâr 36 ah thui zo thei sela dârkâr engzâthnge puanthui 16 in an zawh ang?
- 10 Mî 10 in tuikhuah nî 6 ah zo thei sela mî 8 in nî engzâthnge an khuah zawh ang?

ZAUZIA TEHNA

(Measurement of area)

AREA (square (sq) measure)

100 sq Centimetres (Cmq = 1 sq Decimetre (dmq)

100 sq decimetres = 1 sq metre (mq) emaw
1 Centiare

100 sq metres = 1 sq Decametre (Dmq)
emaw
1 Are~~X~~

Chhiarkawp (Arithmetic) dân hmanga thil zauzia kan teh chuan thil kilh nei (rectangle) chauh kan ngaihtuah thia. Chutiang thil emaw hmun emaw leilung emaw zauzia chu AREA kan ti thia

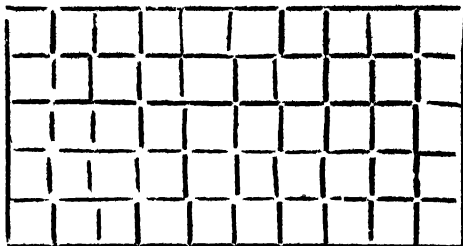
He mi buah hi chuan mawli to to square Centimetre atanga square metre thileng chauhini thi kilh nei zauzia (area) — ohhât emaw dawh kân chung emaw ang chi chauh hi kan zir rib ang a

Entirnaa —

10 cm — A dung

5 cm

A vâng



I He mi lem hi kan en chuan he thil lem hian dung leh vâng a nei a A dung lam chu entirnaa mi ang hian 10 centimetres a ni a a vâng lam chu 5 centimetres a ni

He mi awmzia chu centimetre hlir kil li nei (kil tin centimetre khat) 10 thar 5 a awm tihna a ni. Chu mi awmzia chu he figure-ah hian centimetre kil li nei hlir 10 vaw: $5 = 50 = 10 \times 5 = 50$ a leng a chu chu 5 sq centimetre (cmq) a lo ni

Hetieng hien thil zausia chu awl takin eng
 anga sau pawh a dung leh vâng kan hriat phawt
 chuan kan hre thei a ni. Thil zausia chu a dung
 leh a vâng punitrin a chhuak tihna a ni

$Zausia = area = a \text{ dung} \times a \text{ vâng}$

II. Pindan pakhat chu a dung metre 10 a vâng
 metre 10 a ni a, a area sawng chhuak rawh —

A dung 10 m

A vâng 10 m

$Area = 10 \times 10 = 100 \text{ sqm} = 1 \text{ Acre} = 1 \text{ Dmq}$

THETUR XXIV

A

Hêng area hi sawng chhuak rawh —

1. A dung 10 Cm a vâng 6 Cm

2. A dung 12 Cm a vâng 9 Cm

3 A dung 21 Dm a vâng 12 Dm

- 4 A dung 16 Dm a vâng 14 Dm
- 5 A dung 15 m a vâng 8 m.
- 6 A dung 1 m 40Dm a vâng 20 Dm.
- 7 A dung ~~4~~ 1/4 Cm a vâng ~~1/4~~
- 8 A dung 22 m a vâng 13 m
- 9 A dung 8 Dm 10 Cm a vâng 6 Dm 5 m

AW

- 1 Dawhkân pakhat chu a dung 20 dm a vâng 15 dm a ni a chu dawhkân area chu zawngh chhuak rawh !
- 2 Pindan pakhat chu 16 m a sei a ni a a vâng lam chu 12 m a ni ,chu pindan chu engtia sau nge !

- 3 Sikul pakhat chu a dung 24 m a vâng 16 m. a ni a, a area zawng chhuak rawh
- 4 Sikul huan pakhat chu a dung leh vâng a in chen a, a sir khat chu 20 m a ni chu huan chu engtia sau nga!
- 5 Blackboard pakhat chu ~~24~~ 35 Dm a sei a ni a, a vâng lam chu ~~24~~ 24 Dm a ni chu Blackboard area chu zawng chhuak rawh!
- 6 Puan pakhat chu a vâng 12 Dm a ni a a dung-lam chu 40 Dm a ni a, chu puan area chu engti ngo ni ang!
- 7 Pindan pakhat chu a dung 13 m a vâng 12 m a ni a, chu pindan sauzia chu engnge ni!

SCHOLARSHIP EXAM ZAWHNA

1956

(Tehna leh Bûkna leh Tangka dân hlui chu telh loh vek a ni)

- 1 Ni 1 leh dârkâr 6 ah second engzâtng e awm ? 10
- 2 Chhût chhuak rawh — 7+8
 - (a) $113 - 399 + 287$
 - (b) $150 \times 16 + 100 - 10$
- 3 (b) A tó the ang berin siam rawh — $1\frac{1}{2}$ $1\frac{1}{2}$
- 4 Thingtlâng khaw pakhat chu in 150 a ni a in tin leiman chu Rs 2 a ni a Mahse lei man áwl in 1½ an awm a Chu khuaina lei man an pék zawn zawn chu engzâtng e ni ang ? 10
- 5 Hmeichhe 3 buh phurh leh mípa 2 buh phurh chu a inzât chiah a Mípa 10 phurh zât phur ve túrin hmeichhe engzâtng e ngai ang 10

1957

Full marks—125

Time—3 hours

- 1 (1) Hoi hi a thoin ziaik rawh 706904 4+4
 (2) Hoi hi Figure-in ziaik rawh Singkua leh
 sangnga leh sawmriat leh panuh
- 2 Heng hi ohhât ehhuak rawh — 7+3
 (1) 3000—945—384
 (2) $112 \times 9 + 205 \times 11$
- 3 Lekhabu pakhat ohu phêk 875 a ni 10
 Naupang pakhatin ni tia phêk 25 ohmar
 sela ni engâteb nge a ohhâc ohhuah ang?
- 4 Chantir rawh — 7+8
 Dârkâr 2, min 3 sec 10 hi sec ah
- 5 Hoi hi a te thei ang berin chawh rawh. 6+6
 $\frac{1}{10}$ $\frac{1}{10}$
- 6 Berâm 4 in Re 25 theuh man sela, Berâm
 24 in engâteb a man ang? 10
 emaw
 Mi pakhatin ni 120-ah huan thlo zo thei sela
 mi 120 in ni engâteb nge an sawh ang?
- 7 Khaw pakhatsh chuan mi 10682 an awm a
 kum tin mi 120-in an pang a kum 10 huah
 mihsing engâteb ting thei ang? 10

1958

Full marks—125

Time— 3 hours

1 Chhût chhuak rawh — 8+7

(a) $87+43 \times 5-79$ (b) $1927-853-16+700$

Kêl 24 man chu Rs 564 a ni a kêl pakhat man
zawng chhuak rawh 10

3 Berâm 4 man chu Rs 48 a ni a berâm 9
man zawng chhuak rawh 10

4 Hêng fraction te hi zawng chhuak teh — 10
 $\frac{1}{2} \times 8 \quad \frac{1}{3} - 3$

5 Thingrem pakhatah pencil dozen 2 zêl a awm
a thingrem $4\frac{1}{2}$ ah engsâtng a awm ang ? 10

6. Hêng thil atân bian bill siam teh — 25
Pencil 6 doz dozen khatah 75np zel
Latîn 5, pakhat man Rs 8 zêl
Kamis 3, pakhat man Rs 10 25 zêl

SCHOLARSHIP EXAMINATION 1969

ARITHMETIC.

Full marks — 125

Time— 3hrs

- 1 Bill stam rawh— 20
(1) Ziakhobu doz 3 doz khat man Re 125
zêl
- * Kawlawm doz 2¹/₂ pakhat man Re 150 zêl
- 2, Chawkehhuak rawh — 5+5
(a) $813-324+121-402$
(b) 8600192×203 enaw 2400902—12
- 3 Sêrthlum pum 4 chu 12np zêlah ka brah a
sêrthlum pum 100 ka nei a chêng engzâtng
ka lei ang? 10
- 4 Lehhahu pakhetah phêk 40 a awm a phêk
tinah chuan rin 12 a awm zêl a chutiang leh
khabu pathumah chuan rin engzâtng awm
ang? 10

enaw

- † Number kahnh belh khâwm chu 40 a ni a
an inthlawhna chu 16 a ni a A number lian
zâwk chu engzâtng?

- 7 Darkar 6 ah lehkha phék 43200 khawhn chbut
theih a ni a Minute khatah phék engzátngé
a chbut theih ang ? 10
- 8 Sem ohhuak rawh —
Rs 362 36 -4
- 9 Lalan Rs 168 25 a nei a Thangan Rs 742
08np a nei a Lianan Rs 1208 92 a nei
bawh a An wala neih chu belhkbawm rawh

SCHOLARSHIP EXAMINATION

1960

Full marks—125

Time—3 hours

- 2 Belh rawh — 6+7
(a) $4623+5000+173+16 \neq$
(b) $\frac{1}{2}+\frac{2}{3}+\frac{4}{5}$
- 4 Chawh ohhuak rawh — 7
86-100+154-16
- 5 Rs 235 45 ka nei a kawr lei nan Rs 98 80
ka hmang a, engzátngé ka la neih ang ? 8
- 6 Thutthléng sei pakhatah naupang 5 zêl an
thut thei a, naupang 125 thutna tûm thut
phah sei engzátngé ngai ang ? 8

- 7 In pakhatat tukveth 10 a awm a tukverh tinah dārthlalang 4 zêl a awm a dārthlalang pakhat chu Re 1 25 man zêl a ni a Chu ina tukvern dārthlalang zawng zawng man chu engzâtng a ni ?
- 8 Khaw pakhatat kum 1951 ohbiarpui khân mi bring 6430 an awm a Kum tin mi 45 in an pung a Kum 1961 ohbiarpui ah mi bring eng zâtng a awm ang ?
- 9 Naupang 12 in sikul huan ni 8-ah an thlo zo thei a, ni 2-a thlo zo tûrin naupang engzâtng a kan duh ang ?
- 0 Lei pakhatat a thip dâwnin sum a fete pathum a som a A upa berin Re 5 000 a chang a a dawttuin a upa ber chan zâtve a chang a A tum ber chuan an milai uih Re 1 000 in a chang tam a. Lei pa sum a zung zawng chu engzâtng a ?

SCHOLARSHIP EXAMINATION

1961

Full Marks—125

Time—3 hours

- 2 Pantir rawh— 8+8
Rs 24 75np \times 14
- 3 Belh rawh— 7+7
(a) $3000 + 2684 + 384 + 21$
(b) Paish rawh— $\frac{7}{8} - \frac{1}{12}$
- 4 Chawk chhuak rawh— 7+7
7832—3572—1260+100
- 7 Lâmkhuang kûng 1 ah 15 a rah a a reh 1 ah
mu 96 zêl a awm a Chutiang lâmkhuang
kûng 7 rahah chuan mu engzânge awm ang?
- 9 Mi 12 in ni 4 ah buh an ohil zo thei a mi
9 in ni engzâta h nge an zawh ang? 10
- 10 Bookroom ah lehkhaw 5, Re 1 50 theuhvin
ka lei a lehkhaw 6 Re 1 35 theuhvin
pencil 12 25np theuhvin ka lei bawh a A
vai man atân Rs 15 50 ka pe a Elgzâtin
nge ka la pék thun leh? 15

SCHOLARSHIP EXAM ZAWHNA

1962

Full marks—125

Time— 3 hours

2 Belh rawh—

7+7

(a) $6752 + 1097 + 86 + 137$

(b)	hr	min	sec
	7	9	16
	8	23	46
	4	46	23

4 (a) Dărkărah te minutes-ahle chantir rawh—

80916 sec

(b) Hengte hi a thuin xiek rawh—

2061 8006 10096 999

6 Ni khat sikul kai ehâng chu dărkă 5 a ni
 a naupang pakbatin ni thum sikul a kai a sikula
 a awm ehâng zawng chu minute engzâtuge thng
 ang !

10

7+ March ni 18 atanga June 18 thlong chu ni
 engzâtuge ! (ehhlar tan ni leh a tâwp ni ehhlar
 telin)

10

9 I deh zăwk ehâng ang cho—

10

(a) Kum 1918-ah chuan khaw pakhatat chuan
 mihriag sing thum leh sawmriat an awm a, kum

tin 75 zélin mihring an lo puag ta a kum 1940
ah mi engzátngé tling ang?

emaw

(b) Mi 12 in tuikhuah ni 40 ah an zo thei a mi
8 in ni engzátah nge an zawh ang?

10 Sikul pakhatah chuan naupang 384 an awm a
an zinga 88 te chu an exam naah an tling lo va
pass zinga hmun lia thena hmun khat te chu
hmeiohhia an ni a, mipa engzátngé pass ang? 15

SCHOLARSHIP EXAMINATION

1963

Full marks — 125

Time— 3hrs

1 Héngte hi ka lei a bill siam rawh— 20

(1) Lukhum 4 pakhat man Rs 3 45np zél

(2) Pheikbawk bun 5 bun 1 man Rs 4 75 zél

(3) Zungbun 7 pakhat man Rs 2 30 zél

(4) Samkhuh doz 2 pakhat man 60np vél

2 Chawk ohhuak rawh—

(a) $144 + 63 \times 9 - 251$

(b) $\frac{1}{2} + \frac{1}{3} - \frac{1}{4}$

3[†] Chantir rawh—

(a) Dàrkàr 3 min 20 sec 40 hi second ah 7

4
5 Tukverh kawngkhàr pakhat atân dârlhlalang
8 a tawk chiah a dârlhlalang 432 in tukverh eng
sâtng a dârl theih ang ? 8

5 Sava 112 an lo thlâwk a, a hnu rei lo deupvah
a hmas mi lét hniha tam an lo thlâwk leh a a
hnu lehah chuan a hmasa berte sâtve chauh an
lo thlâwk leh a Sava lo thlâwk zawng zawng
chu engzât ni ang ? 10

6 Khawlai lénnsah Rs 201 25 ka ak chhuak a,
Rs. 160 75np in thil ka lei a, engzâtng ka la
neih ang ? 8

CHHANNA

TIHTUR I

A

1	3	6	8	11	32	16	134
2	6	7	19	12	80	17	67
3	9	8	50	13	109	18	49
4	12	9	40	14	250	19	75
5	6	10	52	15	18	20	69

AW

1	XAI	6	XXXIV	11	CX	16	CLXV
2	XIV	7	XXVII	12	CXXV	17	CCCV
3	XXXII	8	LIV	13	CCXXXI	18	CLXXXII
4	XVIII	9	LXII	14	CXCIV	19	CXIX
5	XLIII	10	LXXVI	15	CXLVII	20	CLIII

TIHTUR II

1	1547	6	24514	11	19980	16	15576
2	2228	7	25422	12	48452	17	15575
3	1564	8	32916	13	2487	18	2798
4	2503	9	13643	14	21276	19	295288
5	29549	10	24440	15	3648	20	27987

TIHTUR III

1	405	11	3299	21	3036	31	31001
2	546	12	6198	22	4339	32	6070
3	650	13	5095	23	2546	33	8613
4	501	14	2396	24	6370	34	10508
5	4209	15	5596	25	47972	35	79633
6	3229	16	5392	26	29340	36	37088
7	2429	17	3118	27	66199	37	941
8	2348	18	894	28	3197	38	626
9	5377	19	2840	29	86694		
10	3379	20	4567	30	71085		

TIHTUR IV

1	2075	7	9688	13	149796	19	1663119
2	1116	8	41400	14	528891	20	2223396
3	1456	9	30256	15	517342	21	467454
4	7776	10	126672	16	415810	22	235614
5	1296	11	149270	17	2252316	23	275064
6.	4896	12	105857	18	1097468	24.	621084

TIHTUR V

1	552	2	2016	3	1944	4	3024
5	1984	6	1450	7	1225	8	259
9	8118	10	35136				

TIHTUR VI

1	36708	2	10017	3	12375	4	148750
5	304128	6	181278	7	643994	8	508464
9	197094	10	384564	11	621084	12	104535

SEM SLI

1	289 ₇	86 ₂₈	104 ₇	80 ₄₇
2	267 ₁₇	2210 ₄₈	1639 ₇₇	51 ₃₇
3	672 ₁₀₈	56 ₁₁₈	370 ₁₈₇	362 ₁₇₇
4	11285 ₇₉	772 ₇₈	13041 ₁₈₈	949 ₈₈₈

FACTOR SEM

1	77	4	59 ₅	7	6
2	28	5	27	8	38
3	17	6	22	9	33

TIHTUR VII

- 1 (a) Nuai khat leh sing riat leh awm leh pahnh sing sarh leh sang li leh sawm leh panga maktaduai hnih leh sing ruk leh za sarh leh sawmnga leh pahnh

(b) 210009 92011; 2000010

2	7854	3	200	4	9072	5	52
6	17 a chuang pum	10	7	2223	8	3660	

TIHTUR VIII

A

1	Rs 430 92np	2	Rs 1620 32np
3	Rs 1375 13np	4	Rs 2030 34np
5	Rs 923 08np	6	Rs 2696 36np

AW

1	Rs 148 18np	2	Rs 354 89np
3	Rs 90 83np	4	Rs 918 87np
5	Rs 489 07np	6	Rs 4 32np

B

1	Rs 300 72np	2	Rs 541 80np
3	Rs 1207 68np	4	Rs 3754 56np
5	Rs 9531 72np	6	Rs 150877 54np
7	Rs 354270 55np	8	Rs 160944 00np
9	Rs 2072224 56np	10	Rs 12682 86np
11	Rs 31275 90np	12	Rs 587646 64np

CH

1	Rs 32 24np leh a chuang 10	2	Rs 17 34np leh a chuang 10
3	Rs 106 27np	4	Rs 59 43np
5	Rs 8067 57np	6	Rs 102 12np
7	Rs 108 97np	8	Rs 23 90np
9	Rs 39 93np a chuang 113	10	Rs 110 51np

D

1	Rs 56400 87np	3	Rs 70067 50np
2	Rs 10676 67np	4	Rs 16 50

TIHTUR IX

A

1 927kg 4hg 2dg 2gm	2 1235kg 6hg 5dg 0gm
3 1405kg 3hg 5dg 5gm	4 1402kg 4hg 4dg 2gm
5 476kg 7hg 0dg 6gm	6 1029kg 3hg 7dg m
7 1108kg 6hg 4dg 3gm	8 1066kg 8hg 7dg 8gm
9 1118kg 6hg 2dg 2gm	10 1111kg 4hg 9dg 7gm

AW

1 102kg 5hg 4dg 9gm	2 108kg 8hg 8dg 2gm
3 25kg 1hg 8dg 9gm	4 413kg 4hg 7dg 7gm
5 258kg 8hg 0dg 2gm	6 781kg 2hg 3dg 1gm
7 202kg 6hg 3dg 7gm	8 78kg 3hg 1dg 3gm
9 87kg 8hg 2dg 5gm	10 477kg 8hg 5dg 3gm

B

1 309kg 4hg 3dg 2gm	2 1865kg 1hg 9dg 0gm
3 4108kg 5hg 9dg 2gm	4 7864kg 6hg 7dg 5gm
5 10113kg 7hg 6dg 8gm	6 21558kg 1hg 8dg 0gm
7 2031kg 3hg 0dg 2gm	8 4719kg 4hg 0dg 5gm
9 22737kg 6hg 9dg 6gm	10 20342kg 7hg 3dg 6gm
11 20785kg 0hg 3dg 2gm	12 29860kg 9hg

CH

1	3kg	8hg	1dg	6gm	2	12kg	6hg	8dg	3gm
3	10kg	9hg	1dg	5gm	4	15kg	2hg	3dg	3gm
5	19kg	86gm			6	25kg	9 ^o gm		
7	34kg	117gm			8	56kg	87gm		
9	91kg	62gm	a	chuang	7				
10	11kg	47gm			11	25kg	5gm		
12	22kg	58gm	a	chuang	28				

TINTUR X

A

1	308km	2hm	3Dm	5m	9dm	1cm
2	754km	9hm	7Dm	1m	5dm	4cm
3	1007km	5hm	2Dm	5m	5dm	3cm
4	1153km	0hm	4Dm	9m	7dm	1cm
5	76km	453m				
6	55km	673m	80cm			
7	269km	365m	88cm			
8	105km	438m	98cm			
9	111km	270m	3cm			
10	542km	378m	36cm			

AW

1	6km	7hm	8Dm	7m	1dm	2cm
2	38km	9hm	2Dm	7m	5dm	8cm
3	12km	0hm	8Dm	0m	8dm	3cm

4	5km	8hm	9Dm	2m	0dm	2cm
5	25km	460m	8cm	6	21km	189m
7	541m	37cm		8	5km	949m 7cm
9	96km	288m	91cm	10	79km	487m 56cm

B

1	417km	2hm	0Dm	2m	4dm	4cm
2	592km	7hm	9Dm	8m	5dm	0cm
3	185km	5hm	6Dm	4m	3dm	4cm
4	47km	9hm	9Dm	7m	2dm	8cm
5	1864km	2hm	3Dm	5m	4dm	0cm
6	449km	0hm	5Dm	9m	3dm	5cm
7	402km	9hm	5Dm	2m	0dm	8cm
8	832km	2hm	9Dm	5m	7dm	5cm
9	321km	191m	40cm	10	347km	75m 19cm
11	1515km	641m	76cm	12	1566km	67m 75cm
13	1149km	6m	56cm	14	273km	756m 86cm
15	210km	372m	30cm	16	3190km	271m 4cm

CH

- 1 1 km 3 hm 0 Dm 1 m 9 dm $5\frac{1}{3}$ cm
- 2 1 km 7 hm 1 Dm 7 m 6 dm 5 cm
- 3 3 km 2 hm 5 Dm 7 m 3 dm $9\frac{1}{3}$ cm
- 4 2 km 1 hm 8 Dm 1 m 1 dm 2 cm
- 5 2 km 9 hm 2 Dm 3 m 0 dm 3 cm
- 6 20km 838m 87cm
- 7 13km 735m 49cm a chuang 8
- 8 21km 116m 69cm
- 9 12km 51m 5cm
- 10 23km 110m 7cm
- 11 5km 25m 1cm

TIHTUR XI

- 1 245km 17m 12cm 2 15km 60m 4cm
- 3 64km 990m 4 7km 993m 87cm
- 5 9³hm 1Dm 4dm 2cm
- 6 54km 27m 70cm
- 7 3Dm 2dm 30m 20cm

- 8 47km 20m 18cm
 9 4 m 10 1720cm 11 8m 16cm
 12 2km 9hm 4Dm 1m = 21m 941m
 13 1Dm 9dm 2cm = 10m 32cm
 14 200742cm

TIHTUR XII

- 1 Rs 20 75np 2 Rs 11 80np 3 Rs 15 45np
 4 Rs 15 09np 5 Rs 23 22np 6 Rs 11 70np
 7 Rs 13 75np 8 Rs 43

TIHTUR XIII

A

- 1 7500 sec 2 25565 sec 3 246350 sec
 4 919280 sec 5 1783566 sec 6 2290965 sec

AW

- 1 21 da 2 53 da 3 34 da 4 62 da
 5 25 da 6 89 da 7 748 da 8 1117 da

B

- 1 264 hr 2 228 hr 3 412 hr 4 1004 hr
 5 631 hr 6 168 hr 7 231 hr 8 372 hr

B (CH)

1	1hr 23min 20sec	2	2hr 44min 30sec
3	22 hr 28 min 36sec	4	497da 21hr 20 min
5	97da 10hr 28min	6	5da 20hrs
7	5da 4hrs	8	6da 4hr
9	1da 4hrs	10	2da 15hrs
11	3da 5hrs	12	3da 22hrs
13	12600 sec	14	1440 min 86400 sec
15	360 hrs	16	4500 sec

TIHTUR XIV

A

1	25 min 33 sec	7	18 min 11 sec
2	45 min 10 sec	8	25 min 28 sec
3	53 min 3 sec	9	42 min 56 sec
4	45 min 70 sec	10	8 min 59 sec
5	45 min 18 sec	11	43 min 54 sec
6	7 min 50 sec	12	14 min

AW

1	19 hr 23 min 38 sec	10	6 da 6 hr 35 min
2	14 hr 41 min 49 sec	11	5 da 1 hr
3	21 hr 24 min 12 sec	12	7 da 8 hr 15 min
4	7 hr	13	5 da 18 hr 5 min
5	20 hr 24 min 24 sec	14	7 da 11 hr 30 min
6	13 hr 1 min	15	6 da 8 hr 15 min
7	24 hr 40 min 31 sec	16	6 da 21 hr 53 min
8	6 hr 39 min 24 sec	17	6 da 1 hr 47 min
9	5 hr 55 min 20 sec	18	6 da 14 hr 33 min

TIHTUR XV

A

1	11 min	10 sec	5	16 min	5 sec
2	21 min	26 sec	6	16 min	13 sec
3	28 min	50 sec	7	78 min	27 sec
4	39 min	22 sec	8	6 min	18 sec
			9	22 min	30 sec

AW

1	2 hr	13 min	5 sec	4	6 hr	11 min	26 sec
2	4 hr	1 min	52 sec	5	1 hr	32 min	29 sec
3	1 hr	32 min	29 sec	6	1 hr	13 min	5 sec

B

1	25 da	3 hr	3 min	6	2 da	2 min	
2	17 da	16 hr	48 min	7	2 da	22 hr	3 min
3	4 da	11 hr	20 min	8	2 da	21 hr	58 min
4	1 da	1 hr	50 min	9	1 da	22 hr	59 min
5	2 da	2 hr	58 min	10	1 da	22 min	

TIHTUR XVI

A

1	72 min	36 sec	5	262 min	24 sec
2	81 min	4 sec	6	700 min	16 sec
3	70 min	56 sec	7	328 min	41 sec
4	127 min		8	753 min	26 sec

AW

1	4 hrs 16 min 40 sec	9	8 hrs 20 min 48 sec
2	15 hrs 45 min 30 sec	10	21 hrs 1 min 40 sec
3	127 hrs 32 min	11	37 hrs 51 min 30 sec
4	19 hrs 25 sec	12	37 hrs 35 min 10 sec
5	155 hrs 31 min 52 sec	13	27 hrs 11 min 52 sec
6	205 hrs 15 min 54 sec	14	9 hrs 6 min
7	53 hrs 7 min 30 sec	15	24 hrs 10 min
8	136 hrs 41 min 12 sec	16	101 hrs 48 min

TIHTUR XVII

A

1	5 min 2 sec	6	3 min 8 sec
2	5 min 2 sec	7	7 min 13 sec
3	8 min 6 sec	8	4 min 7 sec
4	8 min 26 sec	9	10 min 10 sec
5	2 min 8 sec	10	7 min 43 sec

AW

1	4 hrs 5 min 23 sec	5	2 hrs 45 min 45 sec
2	5 hrs 50 min 2 sec	6	1 hrs 46 min 34 sec
3	2 hrs 37 min 19 sec	7	2 hrs 4 min 28 sec

(a chuang 4)

4	3 hrs 57 min 1 sec	8	1 hrs 17 min 8 sec
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B

1	1 da 18 hrs 3 min	5	16 hrs 40 min
2	1 da 22 hrs 2 min	6	4 hrs 1 min
3	1 da 9 hrs 1 min	7	2 da 8 hrs 8 min
4	14 hrs 52 min	8	1 da 5 hrs 50 min

TIHTUR XVIII

1	17hrs	2	17hr 45min 5sec
3	47hrs 30min	4	2hrs 47min 45sec
5	1da 9hrs 25min	6	168hrs
7	12min	8	7da 1hr

TIHTUR XIX

1	(a) Kum narân	3	Rs 150
	(b) Leap year	4	(a) n1 136
	(c) Kum narân		(b) n1 115
	(d) Kum narân		(c) n1 199
	(e) Leap year		(d) n1 131
	(f) Kum narân	5	16-Dec Thawhlehn1
2	Kum chanve hnu lam		1934 -
	Kum narânab n1 3 in a tam	6	N1 1561 (a tan
	Leap year ah n1 2 in a tam		n1 leh a tawp n1 tclin)

TIHTUR XXI

A

2	100	10	1000 emaw	10	1	5
3	10	10	10	10	10	

AW

2	100	100	100	100 emaw	10	10	1	1
3	10	10	10	10	10	10	10	10

B

1	50	25	12½	75	62½	56½
2	500	100	25	750	450	115.
3	25	50	80	70		

CH

2	½	¼	⅓	⅓
---	---	---	---	---

D

1	⅔	⅔	⅔
---	---	---	---

E

1	7	3	4
---	---	---	---

F

1	½	⅔	⅔	⅔	9	⅔
---	---	---	---	---	---	---

G

1	½	⅔	⅔	⅔	½
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TIHTUR XXII

A

1	Rs 1 30	4	Rs 4 10	7	Rs 1 64
2	88½ p	5	Rs 3 12	8	Rs 3 95
3	10 p	6	60½ p	9	20 P

AW

1	Rs 6·11½	2	Rs 58 50	3	Rs 24 48
4	Rs 25 71½	5	Rs 96	6	Rs. 720
7	20·26½	8	Rs. 10·32		

B

1	Rs 5 50	2	Rs 896	3	Rs 57
4	Rs 25 50	5	Rs 96	6	Rs 634 50
7	Rs 4	8	Rs 27		

CH

1	52kg	4	1500	7	24km
2	22kg	5	20	8	11 ¹ ni
3	656kg 1hg	6	48 m	9	66
				10	160

TIHTUR XXIII

1	9 ¹ / ₈ ni	2	3 hapta	3	6 ni
4	ni 66 ² / ₃	5	ni 15	6	ni 10
7	ni 13 ¹ / ₄	8	ni 13 ¹ / ₈	9	ni 12 ¹ / ₈
				10	ni 7 ¹ / ₄

TIHTUR XXIV

A

1	60cmq	4	224Dmq	7	140cmq
2	108cmq	5	120mq	8	286mq
3	252cmq	6	800Dmq	9	52065000cmq

AW

1	300dmq	3	384mq	6	480Dmq
2	192mq	4	400mq	7	156mq
		5	840Dmq		

1956

1 1800sec 2 (a) 1 (b) 2410
3 (b) $\frac{1}{11}$ $\frac{1}{8}$ 4 Rs 274 5 15 hmeicbbha

1957

1	(1)	Nuasarib leh sangruk leh zakua leh pal			
	(2)	95082			
2	(1)	1671	(2)	3263	5 1 3
3	n1	35			6 R. 150 1 n1
4		7390 seo			7 11882 mibring

1958

1	(a)	223	(b)	1758	2	Rs 23 50
3	Rs	108	4	6 1	5	9 doz

1959

1	R# 39 75	2	(a) 208 (b) 1745838976 emaw 200075,
3	R# 3	4	1440 rin emaw 28
7	120	8	R# 90 59 9 R# 2119 25

1960

2	(a) 9812	6	25
	(b) 5	7	Rs 50
4	118	8	6850
5	Rs 136 65	9	48
		10	Rs 11 000

1961

2	Rs 346 50	3	(a) 6089 (b) 1½
4	3100	9	5½ ni
7	10080	10	Rs 3 10

1962

2	(a) 8072		
	(b) 21 hr 24 min 25 sec		
4	(a) 22 hr 28 min 36 sec		
	(b) Sāughnih leh sawmruk leh pakhat		
	Sāngriat leh paruk		
	Singkhat leh sawmkua leh paruk		
	Zakua leh sawmkua leh pakua		
6	900 mins	7	93 ni
		9	(a) 39650
10	222 mpa		(b) 60 ni

1963

1	Rs 68 05	3	(a) 12040	5	392
2	(a) 460	4	54	6	Rs 31 50
	(b) 1½				

T I H D I K N A

Phék 5 No 17 20 puntir chhinchhiah kha belh
chhinchhiah a ni

Phék 13 TIBTUR VI

Phék 15 No 2 x kha — tûr

Phék 26 No 3 m zâwna y kha 7 a ni

Phék 36 TIBTUR B kha CH tih tûr

Phék 47 No 6 kha ni zât chauh sawn chhuah tûr

Phék 62 64— 1 Area kha— 1 Are tih tûr

Phék 65 6 na 1m 4Dm— 40Dm tih tûr

Phék 65 7 na kha a dung 14cm a vâng 1dm tih tûr

Phék 66 5 na kha— 35Dm a sei 24Dm a vâng
tih tûr

Phék 70 2 na kha Chawk chhuak rawh tih
zâwna awm tûr a ni